

LISTING OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A circuit configured for coupling a ~~number of~~ power-supplying ~~modules~~ module to a common point, whereby a respective circuit is associated with a respective power-supplying module to connect each power-supplying module to the common point, and wherein the circuit comprises an electronically controlled transistor element configured for conveying a current of a magnitude belonging within a predefined range, a device for detecting the direction of the current, and a control circuit configured for controlling said transistor element in such a manner that a current from the common point to one of said modules can be essentially prevented, ~~characterised in that~~ further wherein said transistor element can be controlled in such a manner that a pre-selected voltage drop is produced across the transistor element independently of said current magnitude.
2. (Currently Amended) A circuit according to claim 1, ~~characterised in that~~ wherein said transistor element comprises a number of transistor elements interconnected in parallel.
3. (Currently Amended) A circuit according to claim 1, ~~characterised in that~~ wherein said transistor element comprises at least one MOSFET transistor.
4. (Currently Amended) A circuit according to claim 1, ~~characterised in that~~ wherein the circuit comprises a buffer circuit configured for driving said transistor element.
5. (Currently Amended) A circuit according to claim 1, ~~characterised in that~~ wherein the circuit comprises an active regulator loop configured for detecting changes in said current.
6. (Currently Amended) A circuit according to claim 1, ~~characterised in that~~ wherein the circuit partakes in a power supply system.

7. (Currently Amended) A method of coupling a number of power-supplying modules to a common point, wherein an electronically controlled transistor element conveys a current of a magnitude belonging within a pre-defined range from a respective one of the power-supplying modules, and wherein the direction of the current is detected, and wherein a current from the common point to said module is essentially prevented by controlling said transistor element off if a current flows from the common point to the module, ~~characterised in that further~~ wherein said transistor element is controlled in such a manner that a preselected voltage drop is provided across the transistor element independently of said current magnitude.

8. (Currently Amended) A method according to claim 7, ~~characterised in that~~ wherein said transistor element comprises a number of transistor elements that are interconnected in parallel.

9. (Currently Amended) A method according to claim 7, ~~characterised in that~~ wherein the transistor element comprises at least one MOSFET transistor.

10. (Currently Amended) A method according to claim 7, ~~characterised in that~~ wherein the transistor element is driven by a buffer circuit.

11. (Currently Amended) A method according to claim 7, ~~characterised in that~~ wherein changes in said current ~~is~~ are detected by an active regulator loop.

12. (New) A circuit configured for coupling a power-supplying module to a common point, whereby a respective circuit is associated with a respective power-supplying module to connect each power-supplying module to the common point, and wherein the circuit comprises an electronically controlled transistor element configured for conveying a current of a magnitude belonging within a predefined range, a device for detecting the direction of the current, and a control circuit configured for controlling said transistor element in such a manner that a current from the common point to one of said modules can be essentially prevented, further wherein said transistor element can be controlled in such a manner that a pre-selected voltage drop is produced

across the transistor element independently of said current magnitude, said control circuit having an input coupled across the transistor element and having an output coupled to a control electrode of said transistor element to maintain said pre-selected voltage drop.

13. (New) A method of coupling a number of power-supplying modules to a common point, wherein an electronically controlled transistor element conveys a current of a magnitude belonging within a pre-defined range from a respective one of the power-supplying modules, and wherein the direction of the current is detected, and wherein a current from the common point to said module is essentially prevented by controlling said transistor element off if a current flows from the common point to the module, further wherein said transistor element is controlled in such a manner that a pre-selected voltage drop is provided across the transistor element independently of said current magnitude by monitoring the voltage drop across the transistor element and providing a feedback voltage to a control electrode of the transistor element to maintain the pre-selected voltage drop.